## **STAR PLUS Publications**

School Name:	Student Name:	Roll #:

TEST BIOLOGY 9 <sup>th</sup> CHAPTER #
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**SECTION-I** Q.No.1. Encircle the correct answer from the following choices.

Time: 1 hour

**9.** Define chloroplast and write its function also.

(20x1=20)

**Total Marks: 40** 

				یں اور اس کے گر د دائرہ لگائیں۔	كاانتخاب كرب	درج ذیل میں سے درست جواب
1. A set of related genera	would be	grouped into:				
(a) phylum	(b)	order	(c)	family	(d)	class
2. Each rank of classifica	1	led a:				
(a) species	(b)	taxon	(c)	taxa	(d)	phylum
3. A genus is a group of r			1	T		
(a) orders	(b)	species	(c)	classes	(d)	families
4. A group of related spec				1 1	(1)	1
(a) kingdom	(b)	genus	(c)	phylum	(d)	order
5. Which of these organe golgi bodies	T T		(a)	mitochondria	(4)	nuolous
	(b)	chloroplast	(c)	Illitochonaria	(d)	nucleus
6. The microscopic study (a) physiology	(b)	histology	(c)	anatomy	(d)	morphology
7. The function of mitoch	\ /		(C)	anatomy	(u)	morphology
(a) lipids storage	(b)	protein synthesis	(c)	cellular respiration	(d)	photosynthesis
8. Name of mature bone	\ /	protein synthesis	(0)	centilai respiration	(u)	photosynthesis
(a) osteocytes	(b)	chondrocyte	(c)	oocytes	(d)	tendons
9. Cell wall of fungi has:	(-)		(-)	1	( /	
(a) protein	(b)	chitin	(c)	cellulose	(d)	fats
10. Basic unit of classificat	ion is:					
(a) taxon	(b)	species	(c)	genus	(d)	order
11. Proposed three kingdo	m classifi	cation:				
(a) Ernst hackle	(b)	E. Chatton	(c)	king	(d)	Linnaeus
12. Which is the national a	nimal of	Pakistan?				
(a) Chakor	(b)	Markhor	(c)	Ibex	(d)	Urial
13. The order of human ac			ī	T	1	
(a) Pisum	(b)	Hominidae	(c)	Primates	(d)	Mammalia
14. Bacteria are assigned t	<del></del>			т .	(1)	
(a) fungi	(b)	monera	(c)	portista	(d)	porifea
15. Who introduced the sy			1		(1)	D -1 W/1-14-1
(a) Ernst Hackel	(b)	Aristotle	(c)	Carlous Linnaeus	(d)	Robert Whittaker
16. The chloroplast function (a) ATP synthesis	(b)	protein synthesis	(c)	photosynthesis	(d)	DNA replicate
17. Plant nucleus discover	. ,	protein synthesis	(c)	photosynthesis	(u)	DIVA Teplicate
(a) 1932	(b)	1931	(c)	1731	(d)	1838
18. Tissue also makes the	( )		(0)	1/31	(4)	1000
(a) nervous tissue	(b)	epithelial tissue	(c)	connective tissue	(d)	Muscular tissue
19. The magnification of li	\ /	•			\~/	
(a) 500x	(b)	1000x	(c)	1500x	(d)	15000x
20. Which of these organe	lles have t	heir own DNA?				
(a) golgi bodies	(b)	chloroplast	(c)	mitochondria	(d)	nucleus
		SECT	ΓΙΟΝ-ΙΙ			
Q.No.2. Answer the fo	llowing	questions.		کے جوابات دیں۔	ذيل سوالات	ررج: 10x2=20
1. Define genes.  2. Define the major functions of PER.						
- C				4. What do you know about Marco Polo sheep?		
5. What do you mean by soil erosion?  6. Write characteristics of kingdom monera.						
7. Differentiate between au			8. Write the name of any two sub cellular particles.			
Differentiate between at	us and	a necessarynis.	J. 111	inc the hame of any tw	o suo ce	morar particios.

**10.** Define family and genus.

TEST	MATHEMATICS oth	CHAPTER#3&4
School Name:	Student Name:	Roll #:
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Time: 1 hour		Total Marks: 40
	SECTION-I	

Q.No.1. Encircle the correct answer from the following choices.

i. درج ذیل میں سے درست جواب کا متخاب کریں اور اس کے گر د دائزہ لگائیں۔

1. In	$\log_x 64 = 2$ , the value of	of v is:					
(a)	64	(b)	2	(c)	64 <sup>2</sup>	(d)	8
2. lo	g e = whe	ere <i>e</i> ≈	2.718	(-)	-	(**)	-
(a)	0	(b)	0.4343	(c)	$\infty$	(d)	1
	$y = \log_z x$ then	:		, , ,			
(a)	$x^y = z$	(b)	$z^y = x$	(c)	$x^z = y$	(d)	$y^z = x$
4. T	he characteristics of 5	.79:		•			-
(a)	1	(b)	0	(c)	-1	(d)	-2
5. T	he logarithm of any n	umber	of itself as a base is_	<u>:</u>			
(a)	1	(b)	0	(c)	-1	(d)	10
6. If	$\log_{64} 8 = \frac{x}{2}$ , then the va	lue of "	x" is:				
(a)	1	(b)	2	(c)	3	(d)	4
7. lo	g <sub>a</sub> a is equal to:			•			
(a)	0	(b)	-1	(c)	1	(d)	10
8. lo	gm <sup>n</sup> =	<u> </u>		•			
(a)	(logm) <sup>n</sup>	(b)	m logn	(c)	n logm	(d)	log (mn)
9. Sc	cientific notation of 0.0	0074 is:	<u> </u>				
(a)	$7.4 \times 10^{-3}$	(b)	$7.4 \times 10^4$	(c)	$7.4 \times 10^{-2}$	(d)	7.4 x 10 <sup>-4</sup>
	cientific notation of 0.0		4	, ,	4		7
(a)	6.43 x 10 <sup>-2</sup>	(b)	$6.43 \times 10^4$	(c)	6.43 x 10 <sup>-4</sup>	(d)	$6.43 \times 10^2$
11. $\frac{a^2}{a}$	-b <sup>2</sup> / <sub>+b</sub> is equal to:						
(a)	$(a-b)^2$	(b)	$(a+b)^2$	(c)	(a+b)	(d)	(a – b)
12. T	he degree of polynomi	ial 4x <sup>4</sup> +2					
(a)	1	(b)	2	(c)	3	(d)	4
13. E	very polynomial is		expression.				
(a)	unreal	(b)	real	(c)	rational	(d)	irrational
	actor of $3x^2 - x - 2$	1					
(a)	(x+1),(3x-2)	(b)	(x+1),(3x+2)	(c)	(x-1),(3x-2)	(d)	(x-1),(3x+2)
15. ( <sub>\gamma</sub>	$(\overline{a} + \sqrt{b})(\sqrt{a} - \sqrt{b}) =$		2 2	<u> </u>			
(a)	$a^2 + a^2$	(b)	$a^2-b^2$	(c)	a + b	(d)	a-b
	x+3y – 2 is an algebrai			1 1		1	
(a)	expression	(b)	sentence	(c)	equation	(d)	inequation
	$(3 + \sqrt{2})(3 - \sqrt{2})$ is eq						
(a)	7	(b)	-7	(c)	-1	(d)	+1
18. $\frac{1}{a-b} - \frac{1}{a+b}$ is equal to:							
(a)	$\frac{2a}{a^2-b^2}$	(b)	$\frac{2b}{a^2-b^2}$	(c)	$\frac{-2a}{a^2-b^2}$	(d)	$\frac{-2b}{a^2-b^2}$
19. T	he degree of polynomi						
(a)	1	(b)	2	(c)	3	(d)	4
20. If	x = 3 and $y = -1$ then	the valu	ne of x³y will				
(a)	27	(b)	-27	(c)	9	(d)	<b>-</b> 9
			SEC	TION-II			

## Q.No.2. Answer the following questions.

درج ذیل سوالات کے جوابات دیں۔ 10x2=20

1. Find the value of $\log_{64} 8 = \frac{x}{2}$	2. Write in scientific notation: 0.0074	3. Find the value of x: $\log_2 x = 5$
4. Define logarithm.	5. Simplify $\frac{x^2-4x+4}{2x^2-8}$	<b>6.</b> Factorize: $3x - 243x^3$
7. Define surd.	8. Write in scientific notation 0.00643	9. Simplify $\frac{(x+2)(x^2-1)}{(x+1)(x^2-4)}$
10 Rationalize the denominator: 1		

	_		
School Name:		Student Name:	Roll #:

11:21		PHYSIC	<b>5</b> 9 <sup>11</sup>	•		CHAPIEK#3&4
Time: 1 hour		8561	TONI			Total Marks: 40
SECTION-I Q.No.1. Encircle the correct answer from the following choices. (20x²						
				ں اور اس کے گر د دائر ہ لگائیں۔	اا متخاب کریر	درج ذیل میں سے درست جواب کا
1. Newton's first law of r	montion is	valid only in the ak	scanca of	**	,,	· • · · · · · · · · · · · · · · · · · ·
(a) force	(b)	net force	(c)	friction	(d)	momentum
2. Inertia depends upon:	` '	net force	(C)	metion	(u)	momentum
		. 0	(a)	*** 0.00	(4)	
(a) force	(b)	net force	(c)	mass	(d)	velocity
3. The SI unit of moment		12	(-)	NT1	( <b>L</b> )	N <sub>-</sub>
(a) Nm	(b)	kgms <sup>-2</sup>	(c)	$\mathrm{Ns}^{\text{-1}}$	(d)	Ns
4. When a horse pulls a c	*	earth	(a)	horse	(4)	earth and cart
	(b)		(c)		(d)	earth and cart
(a) Which of the following water	_	ine marble powder	(c)	air	(d)	Oil
6. Mathematically mome			(C)	an	(u)	Oli
	(b)	$P = mv^2$	(a)	$P = (mv)^2$	(4)	D
(a) $P = \frac{v}{m}$	(D)	$P = mv^{-}$	(c)	$P = (IIIV)^{-}$	(d)	P = mv
7. 1 newton is equal to:	(1.)	1.1	(.)	1.111	(1)	1 1111
(a) 1 kgms <sup>-2</sup>	(b)	1 kgms	(c)	1 kgm <sup>-1</sup> s <sup>-1</sup>	(d)	1 kg <sup>-1</sup> m <sup>-1</sup> s <sup>-1</sup>
8. The unit of weight in s (a) dyne	(b)		(a)	nound	(d)	navitan
<ul><li>(a) dyne</li><li>9. Coefficient of friction</li></ul>	` /	kg ••	(c)	pound	(u)	newton
	-			R	(1)	П. В
(a) $\frac{F_S}{R}$	(b)	$F_sR$	(c)	$\frac{R}{F_S}$	(d)	$F_s + R$
10. Rate of change of mon		_				
(a) torque	(b)	force	(c)	mass	(d)	distance
11. Two equal but unlike	_	_				
(a) a torque	(b)	a couple	(c)	equilibrium	(d)	neutral equilibrium
12. The number of forces		•			(1)	. 1
(a) 2	(b)	3	(c)	4	(d)	Any number
13. In SI unit of torque is:		Nm <sup>-1</sup>	(a)	$Nm^2$	(4)	Ns
(a) Nm	(b)		(c) Ita bariza		(d)	INS
<b>14.</b> A force of 10 N makes (a) 10N	(b)	5N	(c)	Zero	: (d)	Maximum
<ul><li>(a) 10N</li><li>15. Point of intersection of</li></ul>	` /		` '		(u)	Maximum
(a) rod	(b)	circular ring	(c)	solid cylinder	(d)	triangular sheet
16. The turning effect of a	` '	•	(C)	sona cynnaei	(u)	triangular sheet
(a) momentum	(b)	torque	(c)	pressure	(d)	work
17. The mathematically fo	` /				(4)	***************************************
(a) $\sum \tau = 0$	(b)	$\sum F = 0$	(c)	$\sum P = 0$	(d)	$\sum W = 0$
18. The number of perper	ıdicular c	_	e are:	_	. ,	2
(a) 1	(b)	2	(c)	3	(d)	4
19. A force of 10N is maki	ing an ang	gle of $30^\circ$ with the h	orizonta	ıl. Its horizontal co	mponen	t will be:
(a) 4N	(b)	5N	(c)	7N	(d)	8.7N
20.In a right angled triangle	e, length o				_	
(a) 1cm	(b)	3 cm	(c)	20cm	(d)	9cm
	<u>SECTION-II</u>					
Q.No.2. Answer the fol	llowing c	<b>μestions.</b>		کے جوابات دیں۔	يل سوالات_	10x2=20 ورج
1. Define dynamics. 2. Define force.						
3. What is the SI unit of	force? D	efine it.		at are laws of mot	ion?	
	5. What is the law of inertia?  6. Define axis of rotation of a body.				odv.	
7. Define centre of gravity.  8. Define torque. Write its units.						

10. What is equilibrium? Give one example.

9. What is meant by a plumb line?

School Name:	Student Name:	Roll #:

30110	or warne		Stac	Cite iv			
	TEST		CHEMIST	RY	9 <sup>th</sup>		<b>CHAPTER #3 &amp; 4</b>
Time	Time: 1 hour Total Marks: 40 SECTION-I						
Q.No.1. Encircle the correct answer from the following choices. (20x1=20)							
					یں اور اس کے گر د دائرہ لگائیں۔	انتخاب كرب	درج ذیل میں سے درست جواب کا
1. H	How many block	s are in mod	ern periodic table:		·	. ,	•
(a)	3	(b)	4	(c)	5	(d)	6
	The vertical colu	mns in the p	eriodic table are called		L		
(a)	periods	(b)	atomic number	(c)	groups	(d)	atomic mass
	The number of g	roups in peri	iodic table is:		<u> </u>		
(a)	8	(b)	9	(c)	18	(d)	12
4. 7	The horizontal li	nes are calle	d:				
(a)	periods	(b)	atomic number	(c)	groups	(d)	atomic mass
5. I	low many eleme	ents are prese	ent in 6 <sup>th</sup> period:				
(a)	2	(b)	8	(c)	18	(d)	32
6. E	Electronegativity	of fluorine i	is:				
(a)	2.0	(b)	3.0	(c)	4.0	(d)	5.0
7. 1	The distance bety	ween the nuc	lei of two carbon atom	s is:			
(a)	115pm	(b)	110pm	(c)	140pm	(d)	154pm
8. 6	o <sup>th</sup> and 7 <sup>th</sup> period	of the long f	form of periodic table	called	<b>:</b>		
(a)	short period	\ \ /	normal periods	(c)	long periods	(d)	very long periods
9. 1	The amount of er	nergy given o	out when an electron is	adde	d to an atom is called:	:	
(a)	lattice energ	y (b)	ionization energy	(c)	electronegativity	(d)	electron affinity
10. T	The elements of g		teen are called:		,		
(a)	carbon famil		noble gases	(c)	alkaline earth metals	(d)	halogens
11. V	Which one is pola	ar molecule:					
(a)	$O_2$	(b)	$Cl_2$	(c)	HC1	(d)	$H_2$
	Hydrogen bond i						
(a)	dotted line	/	single line	(c)	double line	(d)	triple line
13. T	The boiling point						
(a)	800°C	(b)	1413°C	(c)	1450°C	(d)	1477°C
			soluble in water:				
(a)	alcohol	(b)	ether	(c)	benzene	(d)	petrol
	Molecule with do						
(a)	$H_2$	(b)	$O_2$	(c)	$N_2$	(d)	$C_2H_2$
	low many electr		lved in the formation of		ĺ		
(a)	2	(b)	4	(c)	6	(d)	8
	Covalent bond is				Г		
(a)	single	(b)	double	(c)	triple	(d)	metallic
	Bond is formed in				Г		
(a)	single	(b)	double	(c)	triple	(d)	metallic
	•		of electrons in dative				
(a)	acceptor	(b)	donor	(c)	electronegative	(d)	ionic bond
			sess 8 electrons in thei				**
(a)	Не	(b)	Ne	(c)	Ar	(d)	Xe
			SECT	ON-I	<u>[</u>		
Q.N	o.2. Answer th	ne following	g questions.		کے جوابات دیں۔	ل سوالات	10x2=20 درج ذ
1. De	efine ionization e	energy with a	an example.	2.	Define Mosley's period		
	hat is meant by		-		Write the names of no		
5. Differentiate between groups and periods.					6. Define coordinate covalent bond.		

7. What is the difference between duplet and octet rule? 8. Why atoms form bond?

10. What is metallic bond.

9. Define chemical bond with an example.